

Receiving Report

Date: 14/2/19
 Supplier: Thyssen

Batch No: M/28265
 Dart P/O: 22962

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☐ No ☒ N/A ☐
 QC18 Inspection ☒ N/A ☐
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
M 303	RU-200	12	0	12			

Initials of Receiver

QC12

Production/Admin: 14/2/19
 Date
 Received/Costing
 Initial

Location

Purchase Order Receipt Listing

Wednesday, February 19, 2014 11:18:39 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO22962 Receipt Dates from 2/19/2014 to 2/19/2014 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO22962	2		M6061T6A1.000W.1 f 25		2/18/2014	2/19/2014	40.0000	\$1.35	0.0000	0	\$53.87
CAD	No		6061T6 ANGLE 1.00 f x 1.00 x .125W m128265		40.0000	DESJ02		\$53.87	0.0000	0	
	3		M6061T6A4.000W.2 f 50		2/18/2014	2/19/2014	20.0000	\$3.92	0.0000	0	\$78.47
	No		6061T6 ANGLE 4.00 f x 4.00 x .250 m128265		20.0000	DESJ02		\$78.47	0.0000	0	
	4		M6061T6A2.000W.1 f 88		2/18/2014	2/19/2014	20.0000	\$1.45	0.0000	0	\$29.00
	No		Angle 2.000 x 2.000 f x .188W m128265		20.0000	DESJ02		\$29.00	0.0000	0	
	5		M6061T6B0.187X04. f 000		2/18/2014	2/19/2014	24.0000	\$1.56	0.0000	0	\$37.53
	No		6061-T6 Bar .187 x 4.00 m128265		24.0000	DESJ02		\$37.53	0.0000	0	
	6		M6061T6R0.625 f		2/18/2014	2/19/2014	36.0000	\$0.66	0.0000	0	\$23.88
	No		6061-T6 Round Bar .625" m128265		36.0000	DESJ02		\$23.88	0.0000	0	
	7		M6061T6R1.000 f		2/18/2014	2/19/2014	12.0000	\$2.24	0.0000	0	\$26.93
	No		ROUND BAR 1.00" m128265		12.0000	DESJ02		\$26.93	0.0000	0	
	8		M6061T6R1.500 f		2/18/2014	2/19/2014	12.0000	\$3.70	0.0000	0	\$44.35
	No		6061-T6 Round Bar 1.50 m128265		12.0000	DESJ02		\$44.35	0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Reev Date/ Reev Emp	Reev Qty (PO U/M)	Cost Per Unit/ Reev Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name											
PO22962	9	VC-COP001	Thyssenkrupp Materials CA Ltd								
			M6061T6T8.000W.1 f	f	2/18/2014	2/19/2014	20.0000	\$13.11	0.0000	0	\$262.16
			25								
CAD	No		6061-T6 RD Tube	f	20.0000	DESJ02		\$262.16	0.0000	0	
			8.00 X.125W								
			m128265								
	10		M303B1.000X1.000	f	2/18/2014	2/19/2014	12.0000	\$11.18	0.0000	0	\$134.13
	No		303 BAR 1" X 1"	f	12.0000	DESJ02		\$134.13	0.0000	0	
			m128265								
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
196.0000											
0.0000											
0.0000											
\$690.32											
0.0000											

B I L L O F L A D I N G

No: PEC 863598

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Feb14 at 16:06 From PFW
Probill

Via VIM TRANSFER

FOB CONCORD

Frt PREPAID

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: (20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-651993- 1 Your PO # 22962
STAINLESS STEEL SQ BAR 303 STAINLESS

1.00" X 144.0000"

Heat Number
4A084

Tag No
262757

Quantity
12 FT

PCS
1

Wt LBS
41

MTR

2) Our Order PEC-651993- 2 Your PO # 22962
ALUMINUM ANGLE 6061-T6511

1.00" x 1.00" x .125" X 240.0000"

Heat Number
163635-2

Tag No
262758

Quantity
40 FT

PCS
2

Wt LBS
12

MTR

3) Our Order PEC-651993- 3 Your PO # 22962
ALUMINUM ANGLE 6061-T6511

2.00" x 2.00" x .187" X 240.0000"

Heat Number
401536-5

Tag No
262759

Quantity
20 FT

PCS
1

Wt LBS
17

MTR

4) Our Order PEC-651993- 4 Your PO # 22962
ALUMINUM ANGLE 6061-T6511

4.00" x 4.00" x .250" X 240.0000"

Heat Number
163514-4

Tag No
262760

Quantity
20 FT

PCS
1

Wt LBS
46

MTR

5) Our Order PEC-651993- 5 Your PO # 22962
ALUMINUM FLAT BAR 6061-T6511

.187" x 4.00" X 240.0000"

Heat Number
E3A0353A

Tag No
262936

Quantity
40 FT

PCS
2

Wt LBS
35

MTR

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 863598
Ship Date 14Feb14 at 16:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-651993- 6 Your PO # 22962
ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"

Heat Number Tag No
40958-072 262761

Quantity PCS Wt LBS
36 FT 3 13

MTR

7) Our Order PEC-651993- 7 Your PO # 22962
ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"

Heat Number Tag No
37668-5 262762

Quantity PCS Wt LBS
12 FT 1 10

MTR

8) Our Order PEC-651993- 8 Your PO # 22962
ALUMINUM ROUND BAR 6061-T6511
1.50" DIA X 144.0000"

Heat Number Tag No
164694-1 262763

Quantity PCS Wt LBS
12 FT 1 26

MTR

TOTAL: Tags 8 PCS 12 LBS 200

Heat Number

*** Chemical Analysis ***

163514-4
163635-2
164694-1
37668-5
401536-5
40958-072
4A084
E3A0353A

Page 1/19

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

No: PEC 863598
Ship Date 14Feb14 at 16:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 2 BDLS GW. 253 LBS

ITEM (1-4,6-8) BDL, (5) BDL.

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 3 Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G

No: PEC 863534

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Feb14 at 11:40 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-652114- 1 Your PO # 22962
Part # EXTRUDED OK Rel #
ALUMINUM TUBE 6061-T6511
8.00" OD x .125" WALL X 240.0000"

Heat Number Tag No
21479314 262777

Quantity PCS Wt LBS
20 FT 1 73

TOTAL: Tags 1 PCS 1 LBS 73

Heat Number *** Chemical Analysis ***
21479314

ASDD ON TO 651993 SUR-CHARGE ADDED SHIP TOGETHER

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL GW. 98 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

SHIP From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G
No: PEC 863534
Ship Date 14Feb14 at 11:40 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

=====

B I L L O F L A D I N G

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.***

Page: 2 Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINIUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

THYSSENKRUPP MATERIALS NA
DART AEROSPACE

STAINLESS STEEL SQ BAR 303 STAINLESS
1.00" X 1.44, 0000"
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-001

14Feb14
Pg 1/1



INSPECTION CERTIFICATE

Customer: TA CHEN STAINLESS PIPE CO., LTD.
Product: 303 Stainless Steel Cold Drawn Square Bar
Serial No: AL30402078

Order No: 10201008/139672
Spec/Location: 303

WAL SIN LUYWA CORP. YENSHUI PLANT
台灣聯華鋼鐵有限公司
地址: 台灣桃園市八德區永興路11號
電話: 03-3211111, 03-3211111
傳真: 03-3211111, 03-3211111
E-mail: sales@walsin.com.tw
Website: www.walsin.com.tw

Heat No	Tensile Pcs	Y	Chemical Composition in wt %													Mechanical Property					EQUIV NO
			C	S	Mn	P	S	N	G	Mo	Cr	Ni	TS	YS	EL	RA	HAR	HB			
	(inch)	(LES)	x100	x100	x100	x1000	x1000	x100	x100	x100	x1000										
Spec	Mn		15	100	200	200	150	800	1700												
4A084	54	2168	5.2	25	25	28	333.3	854	1725	13	51	198	700	621	36	44	95		VL18013030		
4A084	53	2180	5.2	25	25	28	333.3	854	1725	13	51	198	700	621	36	44	95		VL3013031		
4A084	54	2222	5.2	25	25	28	333.3	854	1725	13	51	198	700	621	36	44	95		VL3013010		
Total:		6571																			

TOLERANCE: A484
Acc. to ASTM A582-05 Cond. A.
Acc. to ASTM A584 564 Type 1/00-5-764 chemistry only.

LENGTH TOLERANCE: 0-30

Remark:
This inspection is issued acc. to EN 10204 3.1.
Solution annealed treatment: Acc. to ASTM A484-11.
Macro & micro structure: good, grain size: Acc. to ASTM E112.
Rolled manufactured: Taiwan, Improved machining.
Microstructure free from continuous grain boundary
carbide precipitation as per ASTM A262 A & E.

- We hereby certify that material described herein has been
manufactured and tested with satisfactory results
in accordance with requirement.
- We certify that the material is free from mercury
of the above material specification.
- We certify that the material is free from mercury
and radiation contamination, qualification
- No. of Taiwan Atomic Energy Committee: 136
- The Above Testing Results Relate only to the Items Tested.
- No welding repaired

SUPPLY CONDITION:
As Annealed
BISN/BISN
C&S Cased
E-Resin/Shot Pass
H-Preheating Hardening
H-Preheating
K-Cut Edge
L-Preheated
M-Cold Rolled
P-Preheated
S-Shaped
W-Cut
X-Temper
Y-Cold Draw
Z-Centless Ground
Pl. turned or Pealed

- Laboratory accredited by: ISO/IEC 17025:2005
- Quality management system approval by: TÜV
ISO9001:2008 and ISO14001:2004
NO. 011004225836
PEI: 97/21/EC Certificate No. 01202 EDC/0-02-0016
- Manufacture system approval: DNV
Certificate No. N001-9358
- Steelmaking and heat-treating approval: LR
Certificate No. 1000/9643/0003/1
- Environment management system approval by: TÜV
ISO14001:2004 Certificate No. 01104228145
6.00555 18001:2007 Certificate No. 0113066441
TOSMS Certificate No. C807-100091-00

TEST METHOD:
CHEMICAL: ASTM E1806, E415, E1086, E1019

Quality Assurance Responsible Personnel
SL Khan,

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ANGLE 6061-T6511
2.00" x 2.00" x .187" X 240.0000"
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-003

14Feb14

Signed by: _____ Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: 273224

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Ticket:
5349337

Our Order: **401536 - 5**

Cust P.O.: 255466

Die: ES05620

Part: 05620-000-240

Alloy Temper: 6061 T6511

Description: 2.000 x 2.000 x .187

Print Date: 2/5/14

Chemical Composition Range

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
500935	14010221A	A11	2/4/14	44.96	39.42	10.4


Applicable Specifications: ASTM B221-13 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized: _____


Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.187" x 4.00" X 240.0000"

PART NO.

PO/Rel 22962

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-005

14Feb14

Signed by: _____ Pg 1/1



LB ALUMINIUM BERHAD
(138535-V)

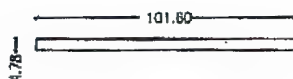


ALUMINUM EXTRUSION

TEST CERTIFICATE

CUSTOMER: THYSSENKRUPP MATERIALS NA	SECTION NO.: PE01230MP06100	DATE: Nov-18-2013
SALES ORDER NO.: 1364536	WORK ORDER: 362773	ALLOY: 6061-T6511
PRESS NO.: 2000	EXTRUSION DATE: Oct-29-2013	CERTIFICATE NO.: MCERT1310627
CUSTOMER PO NO.: THYSSENKRUPP 1		

Section Sketch:



Thickness = 4.75 mm

CHEMICAL COMPOSITION										
Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref.
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	Remainder	E3A0353A ✓ Jan-23-2013
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15		
Actual	0.670	0.180	0.340	0.020	1.010	0.080	0.010	0.011		

MECHANICAL PROPERTIES (Result shown is tested by LBALUM)			
	Tensile Strength N/mm ²	Yield Stress N/mm ²	Elongation (%)
Standard	260	240	6
Result	293.91	271.35	13.96

Compliance with ASTM B221M-07
We hereby certify that the material covered by this report has been verified or tested according to the relevant standard sampling method or the requirements of any special sections or requirements described therein, and that sample representative of the material met the composition limits and had the mechanical properties shown. Also, since that mercury is not a normal constituent in aluminum alloys, neither mercury nor any of its compounds are used in the manufacture of our extrusion.

** This certificate of Analysis has been produced electronically and is valid without signature **

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.

Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)

Enquiry@lbalum.com.my www.lbalum.com

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-007

14Feb14

Signed by: _____

Pg 1/1

VITEX

EXTRUSION

43 Industrial Park Drive
P.O. Box 270
Franklin, NH
03235-6149
Tel: (603) 934-5275

CERTIFICATE OF INSPECTION AND TEST RESULTS

SALES ORDER / VITEX LOT
37668 - 5

BILL TO	ThyssenKrupp Materials NA 2821 Langstaff Road Concord, ONT L4K 5C6	MANIFEST NUMBER	63196	DI# NUMBER	900197	DATE OF SHIPMENT	12/06/13	CERTIFICATION	Certs Required
SHIP TO	ThyssenKrupp Materials NA 2821 Langstaff Road Concord, ONT L4K 5C6	CUSTOMER PO	PEC-253222	ALLOY/TEMPER	6061 / T6511	SALESMAN	John Topalian	SPECIFICATION	ASTM B 221-13
		CUSTOMER PART NUMBER	1" DIA ROUND ROD	DESCRIPTION	1" DIA ROD	PIECES SHIPPED	188	SPECIFICATION	SAE AMS QQA 200/8 Rev 97
		LENGTH	144.00"	PIECES SHIPPED	188	PIECES SHIPPED	1,868	SPECIFICATION	Copy of Mill Chemistry/iv ordi

Mechanical Properties

Test ID	Sample ID	Date	Ull. Tensile ksi	Yield ksi	Elongation %	Hardness
1A11	1	11/27/13	44.30	41.30	11.76	92.00
1A11	2	11/27/13	46.00	43.30	10.55	94.00

Chemical Composition Limits Per AS&D Latest Rev for Alloy 6061

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ga	V	Ti	B	Zr
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.05	0.05	0.15	0.05	0.05
ACTUAL CAST INFO	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ga	V	Ti	B	Zr
102431	0.71	0.28	0.24	0.09	0.85	0.07	0.09	0.00	0.00	0.02	0.00	0.00
Country of Melt: USA												

Cert Notes:

Products manufactured with a 6061-T6511 temper also meet T6 temper requirements.

Products manufactured with a 6063-T52 temper also meet T5 temper requirements.

Yield strength has been determined by the 0.2% offset method.

Extrusion made in USA.

We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein. The chemical composition limits and mechanical property limits are set forth above. Samples of the material have been found to meet these requirements. Inspection and test results are maintained on file and are available upon request.

AUTHORIZED SIGNATURE



Handwritten signature of Robert M. Murphy

From: VITEX EXTRUSION

12/16/2013 16:02 #257 P.005/020

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ANGLE 6061-T6511
1.00" X 1.00" X .125" X 240.0000"
PART NO.

P.O./Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-002

14Feb14
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST ASTM B221-12

BILL TO THYSSENKRUPP MATERIALS NA	CART CODE: 1	DIE NUMBER S 2228	DATE OF SHIPMENT 11/26/2013	EXTRUDEX ORDER NO. 163635 - 2	MANIFEST NO. 299042
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-253628	ALLOY 6061	TEMPER T6511	MADE IN CANADA	
SO DESCRIPTION 1" X .125" RF AN	CUSTOMER PART NUMBER 9-125-1000	PART DESCRIPTION	CERTIFICATION MILL TEST ASTM B221-12		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Nov/21/13	43.2	39.8	12.40	89.2,89.9,89.5	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 13110571A 6061	0.54	0.17	0.19	0.02	0.80	0.07	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

Certificate of Mill Test Results

PO/Rei 22962

BL PEC-863598-004

4.00 X 4.00 X .250 X 240.0000
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

14Feb14
Pg 1/1



BILL TO	CART CODE:	DIE NUMBER	DATE OF SHIPMENT
THYSSENKRUPP MATERIALS, NA	1	S 22440	12/3/2013
SHIP TO	CUSTOMER NO	ALLOY	TEMPER
THYSSENKRUPP MATERIALS, NA	PEC-263548	6061	T6511
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION	SALESMAN
4"x.250" RF AN			FORBES DODWELL
		CERTIFICATION	
		MILL TEST ASTM B221-12	

<u>Lot</u>	<u>Alloy</u>	<u>Test Date</u>	<u>Ultimate Tensile Strength (KSI)</u>	<u>Yield Strength (KSI)</u>	<u>Percent Elongation</u>	<u>Hardness</u>	<u>Conductivity</u>
A.11	6061	Nov/26/13	43.5	40.2	13.90	89.0, 89.3, 88.8	

[illegible]

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

[illegible]

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-006

14Feb14

Signed by: _____

Pg 1/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Beitlin
Quo

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-251595-1		CUSTOMER PART NUMBER: ALRD00391		PRODUCT DESCRIPTION: .625 +/- .004 ROD	
KAISER ORDER NUMBER: 651259	LINE ITEM: 001	SHIP DATE: 09/06/2013	KAISER LOT NUMBER: 40958-072	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1004.000 LB	QUANTITY: 232.000 PCS	B/L NUMBER: 607057	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
40958-072	0001	1	48.8	44.2	16.0	RE 93	N/A	N/A
40958-072	0001	2	48.8	44.3	16.5	RE 93	N/A	N/A
40958-072	0001	3	48.7	44.3	16.3	RE 93	N/A	N/A
40958-072	0001	4	48.5	43.9	16.3	RE 93	N/A	N/A
4C958-072	0001	5	48.9	44.4	16.3	RE 92	N/A	N/A
4C958-072	0001	6	48.4	43.8	16.4	RE 93	N/A	N/A
4C958-072	0001	7	48.7	44.3	16.3	RE 94	N/A	N/A
4C958-072	0001	8	49.3	44.6	16.2	RE 92	N/A	N/A
4C958-072	0001	9	49.9	45.1	16.1	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H43855	.63	.33	.29	.10	.94	.11	.16	.02	.00	.01	.00	.01	.03

Applicable Requirements:

ASTM-B221-13 NON-STENCILED ASME-SB221 1993 SECT II AMS-QQ-A-200/3 (2007) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00105007

Kaiser Order Number: 651259

Line Item: 001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-006

14Feb14

Signed by: _____ Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager



Plant Serial: 00105007

Kaiser Order Number: 651259

Line Item: 001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
1.50" DIA X 144.0000"
PART NO.

P.O./Rel 22962

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863598-008

14Feb14
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST ASTM B221-12

BILL TO	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
THYSSENKRUPP MATERIALS NA	1	S 2500	Jan/09/2014	164694 - 1	300669
SHIP TO	CUSTOMER PO	ALLOY	TEMPER	SALESMAN	
THYSSENKRUPP MATERIALS NA	PEC-254596	6061	T6511	FORBES DODWELL	MADE IN CANADA
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION			
1.5" DIA	4-1500				
				CERTIFICATION	MILL TEST ASTM B221-12

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jan/07/2014	54.90	49.80	13.30	92.0,92.8,92.5	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	II	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 22988 6061	0.76	0.320	0.340	0.070	1.02	0.080	0	0.010	0.020	0	0	0	0	0	0	0	0	0	Remainder	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

Certificate of Mill Test Results

BI PRC-863534-001

14Feb14
Pg 1/2

Sage Industrial Extrusions
51 POTTSVILLE STREET

Page 1 of 2

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

20-AUKi-13

Tech/Quality Manager

510

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
6061	0.40	0.80	0.70	0.15	0.40	0.15	0.80	1.20	0.04	0.35	0.25		

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM TUBE 6061-T6511
8.00" OD x .125" WALL X 240.0000"
PART NO. EXTRUDED OK

P.O./Ref 223962

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-863534-001

14Feb14
Pg 2/2

Signed by:

Sapa:

Sapa Industrial Extensions
53 POTTSVILLE STREET
CRUSSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number 1100627399 Line No. 1 Customer Z/O PEC-249856-1

Cert Number SAPA821141 Page 2 of 2
Cert Creation Date 20-AUG-13 Cert Print Date 20-AUG-13

Alloy	Ti		Mn		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.05	---	0.05	---	0.15

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Pb	Others Each	Others Total
4030654	0.70	0.35	0.27	0.06	0.95	0.05	0.05	0.02	---	---	---	---

Mechanical Property - Test Limits

Test Type		UTS - L		TYS - L		El. 4D Long	
Test Temp		KSI		KSI		PCT	
Test Number	Heat	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
18311	21479314	2	43.8	45.0	38.7	40.5	10.0

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.
Yield strength has been determined by the 0.2% offset method.
All mill finish alloys produced at Sapa Industrial Extension comply with Directive 2011/65/EU (RoHS 2) with the exception of 6062 alloy.
In accordance with EN 10204 Inspection Certificate Type 3.1
Made in the USA or Other Qualified Countries as Defined by DPAAS 225.872.1
Made in T6A

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML6061T6T 8.000 X 1.25 PO / BATCH NO.: 22962
 DATE: 14-2-19

MATERIAL CERT REC'D: 14-2-19 THICKNESS ORDERED: 1.25
 QUANTITY RECEIVED: 20 THICKNESS RECEIVED: 1.25
 QUANTITY INSPECTED: 20 SHEET SIZE ORDERED: 1
 QUANTITY REJECTED: 1 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	<u>ML6061T6T 8.000 X 1.25</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION INSPECTED BY: <u>27 9-89</u> DATE: <u>14/2/19</u>	ENGINEERING SIGNOFF (if required) SIGNED OFF BY: _____ DATE: _____
--	--

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ~~103~~ m303B1.000 x 1.000 PO / BATCH NO.: 22962

DATE: 14/2/19

MATERIAL CERT REC'D: 14/2/19
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 1

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>m303B1.000 x 1.000</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6R1.500
 DATE: 14-2-19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 14-2-19
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 1

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>m6061T6R1.500</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS 27

SIGNED OFF BY: _____

DATE: 14/2/19

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T62 1.000
 DATE: 14-2-19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 14-2-19
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 1

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>M6061T62 1.000</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>27</u> DATE: <u>14/2/19</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: mc60t6r0.625
 DATE: 11/2/19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 11/2/19
 QUANTITY RECEIVED: 36
 QUANTITY INSPECTED: 36
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625
 THICKNESS RECEIVED: .625
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>mc60t6r0.625</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27</u> DATE: <u>11/2/19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6B0 1.87x4.00 PO / BATCH NO.: 22962

DATE: 14.2.19

MATERIAL CERT REC'D: 14/2/19
 QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.87
 THICKNESS RECEIVED: 1.87
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>m6061T6B0 1.87x4.00</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: 27

SIGNED OFF BY: _____

DATE: 14/2/19

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6A2.000 x 1.88

PO / BATCH NO.: 22962

DATE: 14-2-19

MATERIAL CERT REC'D: 14/2/19

THICKNESS ORDERED: 2.50

QUANTITY RECEIVED: 20

THICKNESS RECEIVED: 2.50

QUANTITY INSPECTED: 20

SHEET SIZE ORDERED: /

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>M6061T6 A 2.00 x 1.88</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: 27
9-59

SIGNED OFF BY: _____

DATE: 14/2/19

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6A 4.000 X 250 PO / BATCH NO.: 20962
 DATE: 14-2-19

MATERIAL CERT REC'D: 14-2-18 THICKNESS ORDERED: 2.50
 QUANTITY RECEIVED: 20 THICKNESS RECEIVED: 2.50
 QUANTITY INSPECTED: 20 SHEET SIZE ORDERED: 1
 QUANTITY REJECTED: 0 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>M6061T6A 4.000 X 250</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u> DATE: <u>14/2/19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6A 1.000x1.25 PO / BATCH NO.: 22962

DATE: 14-2-19

MATERIAL CERT REC'D: 14-2-18
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.25
 THICKNESS RECEIVED: 1.25
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>m6061T6A 1.000 x 1.25</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION: ENGINEERING SIGNOFF (if required) INSPECTED BY: <u>27</u> DATE: <u>14/2/19</u>	SIGNED OFF BY: _____ DATE: _____
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 1 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

1128268

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	M303R0.250	303 Round Bar 0.250"	2/18/2014		12.00	\$2.50	\$30.00
			Yes		f		
			2/18/2014				

QUOTATION: NO PEC ST-648002

MATERIAL: AISI 303 SS ROUND BAR
AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$30.00

2	M6061T6A1.000W.125	6061T6 ANGLE 1.00 x 1.00 x .125W	2/18/2014		40.00	\$1.50	\$60.00
			Yes		f		
			2/18/2014				

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE
AS PER AMS-QQ-A-200/8

Rec'd 2/14

Line Total: \$60.00

PO Instructions: Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 2 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

3	M6061T6A4.000W.250	6061T6 ANGLE 4.00 x 4.00 x .250	2/18/2014	20.00	✓	\$4.37	\$87.40
			Yes	f	16		
			2/18/2014				

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE
AS PER AMS-QQ-A-200/8

Line Total: \$87.40

4	M6061T6A2.000W.188	Angle 2.000 x 2.000 x .188W	2/18/2014	20.00	✓	\$1.62	\$32.30
			Yes	f			
			2/18/2014				

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE
AS PER AMS-QQ-A-200/8

Line Total: \$32.30

5	M6061T6B0.187X04.000	6061-T6 Bar .187 x 4.00	2/18/2014	24.00	✓	\$1.74	\$41.80
			Yes	f	16/4/2/19		
			2/18/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

PO Instructions: Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 3 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$41.80

6 M6061T6R0.625 6061-T6 Round Bar .625" 2/18/2014
Yes
2/18/2014

36.00
f

\$0.74

\$26.60

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$26.60

7 M6061T6R1.000 ROUND BAR 1.00" 2/18/2014
Yes
2/18/2014

12.00
f

\$2.50

\$30.00

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$30.00

PO Instructions: Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 4 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

8	M6061T6R1.500	6061-T6 Round Bar 1.50	2/18/2014	12.00	✓	\$4.12	\$49.40
			Yes	f			
			2/18/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$49.40

9	M6061T6T8.000W.125	6061-T6 RD Tube 8.00 X.125W	2/18/2014	20.00	✓	\$14.60	\$292.00
			Yes	f			
			2/18/2014				

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Line Total: \$292.00

10	M303B1.000X1.000	303 BAR 1" X 1"	2/18/2014	12.00	✓	\$12.45	\$149.40
			Yes	f			
			2/18/2014				

MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

PO Instructions: Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 5 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA – (Free Carrier)

Line Total: \$149.40

PO Total: \$798.90

PO Instructions: Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.